Saskatchewan Agriculture Seed Drill Survey 1986

A seed survey was again undertaken in Saskatchewan in the spring of 1986. The farmstead development technicians collected the samples and had the questionnaires completed. The analysis was done under contract by the Saskatchewan Wheat Pool Laboratory at Moose Jaw and Newfield Seeds Laboratory at Nipawin.

The six Agricultural Representative Districts were selected "one each" from the six regions. We wish to thank the regional staff and agricultural representatives involved in this survey.

The districts selected were as follows:

S.W. Region - District 9 - Swift Current
S.E. Region - District 7 - Weyburn
W.C. Region - District 22 - Saskatoon
E.C. Region - District 12 - Yorkton
N.W. Region - District 34 - North Battleford
N.E. Region - District 27 - Melfort

To get a statistically reliable survey, an attempt to obtain a sample of at least five percent of the farmers was made. The total number of samples used in the survey was 573.

A questionnaire (attached) was completed at each farmer's location and the results were tabulated.

The analysis was done according to the Seed Testing Laboratory standards which are established under the Canada Seeds Act. See the Tables on pages 7 and 8. The forms that were used to record the results are also attached.

The samples collected were of grains as follows, with the number of samples in brackets: spring wheat (407), barley (63), durum wheat (58), canola (25), oats (12), flax (8). From the results of 1984, it was decided to use only the samples of the above six grains.

The overall quality of seed was 61 percent Canada No. 1, 21 percent Canada No. 2 and 18 percent reject.

Several of the pedigreed samples that were downgraded were checked by the plant products inspectors. Of those checked, it was found that samples received from the processor had no impurities. The contamination took place in the truck, bin and handling equipment as the farmers admitted to not cleaning up between batches. It is assumed that a similar situation exists with a number of the other downgraded samples. Three samples that were checked appeared to be contaminated in handling and were not included in the results.

Sixteen percent of the seed has been chemically treated.

Seventy-nine percent of the farmers rated their cleaning procedure as good, 18 percent rated the cleaning as fair and three percent felt that it was poor.

The farmers were asked to indicate their first, second and third most troublesome weeds. To get a rating of these weeds, the weed named as the most troublesome by the farmers was given 3 points, the second most troublesome, 2 points and the third, 1 point. The weeds were rated on an accumulated point basis. The points accumulated by each weed are indicated in the weed problem rating.

POOL

Saskatchewan Wheat Pool
Farm Service

HEAD OFFICE: 2625 Victoria Avenue, Regina, Saskatchewan, Canada S4T 7T9 TEL: (306) 569-4411 TLX: 071-2284
NIPAWIN SEED LAB: Box 1630, Nipawin, Saskatchewan, Canada S0E 1E0 TEL: (306) 862-4757
MOOSE JAW SEED LAB: 605 Lillooet Street West, Moose Jaw, Saskatchewan, Canada S6H 4Z6 TEL: (306) 692-0671

CERTIFICATE OF SEED ANALYSIS

From	Kind	Certificate No.
	Variety	
	Designation (Lot No.)	

Noxious Weed Seeds No. Per	**Other Weed Seeds** No. Per	**Other Crop Seeds** No. Per
Prohibited		
Primary		
Total Primary Noxious		
Secondary		
Total Secondary Noxious	Total Other Weed Seeds	Total Other Crop Seeds
Total Noxious Weed Seeds	Total Weed Seeds All Kinds	Sweet Clover No. Per
Pure Seed %	Germination %	Pure Living Seed %
Other Crops %	Hard Seeds %	Dehulled %
Weed Seeds %	Germination Including Hard Seeds %	Other Tests
Inert Matter %		
Canada Grade		

Remarks

Laboratory _____ Date _____ Seed Analyst _____

THIS CERTIFIES THAT THE SAMPLE SUBMITTED FROM THE LOT DESIGNATED ABOVE HAS BEEN ANALYSED ACCORDING TO: *1. Methods and Procedures of seed testing, C.D.A.; 2. Rules for testing seeds, A.O.S.A.; 3. International Rules for Seed Testing, I.S.T.A.; 4. As specified by Contract.*
THE RESPONSIBILITY FOR ANY SEED SOLD UNDER THIS CERTIFICATE WITH RESPECT TO GRADE OR ANY OTHER SPECIFICATION RESTS ENTIRELY WITH THE SELLER.

FORM 2069

newfield seeds

Newfield Seeds Limited, Box 100, Nipawin, Saskatchewan S0E 1E0

CERTIFICATE OF SEED ANALYSIS

From	Kind		Test No.
Address	Designation	Date	Fee

NOXIOUS WEED SEEDS	OTHER WEED SEEDS	OTHER CROP SEEDS
Found/lbs		
Per Grams		
Total Per Grams		Sweet Clover per / % Hulled Seed
Species		This Sample Grades CANADA GRADE NO.
Total Noxious Per Grams	Total Weed Seeds	_____ Germination _____ Purity _____ Blackleg _____ Acid _____ Gluco _____ Ascochyta

% Germ. Incl. Hard Seed	% Hard Seed	% Pure Living Seed	Agar Plate Test No. _____
% Crop Seeds	% Other Crops	% Weeds	% Inert	Ascochyta Disease Present _____ No. Blackleg Found/400 Seeds _____

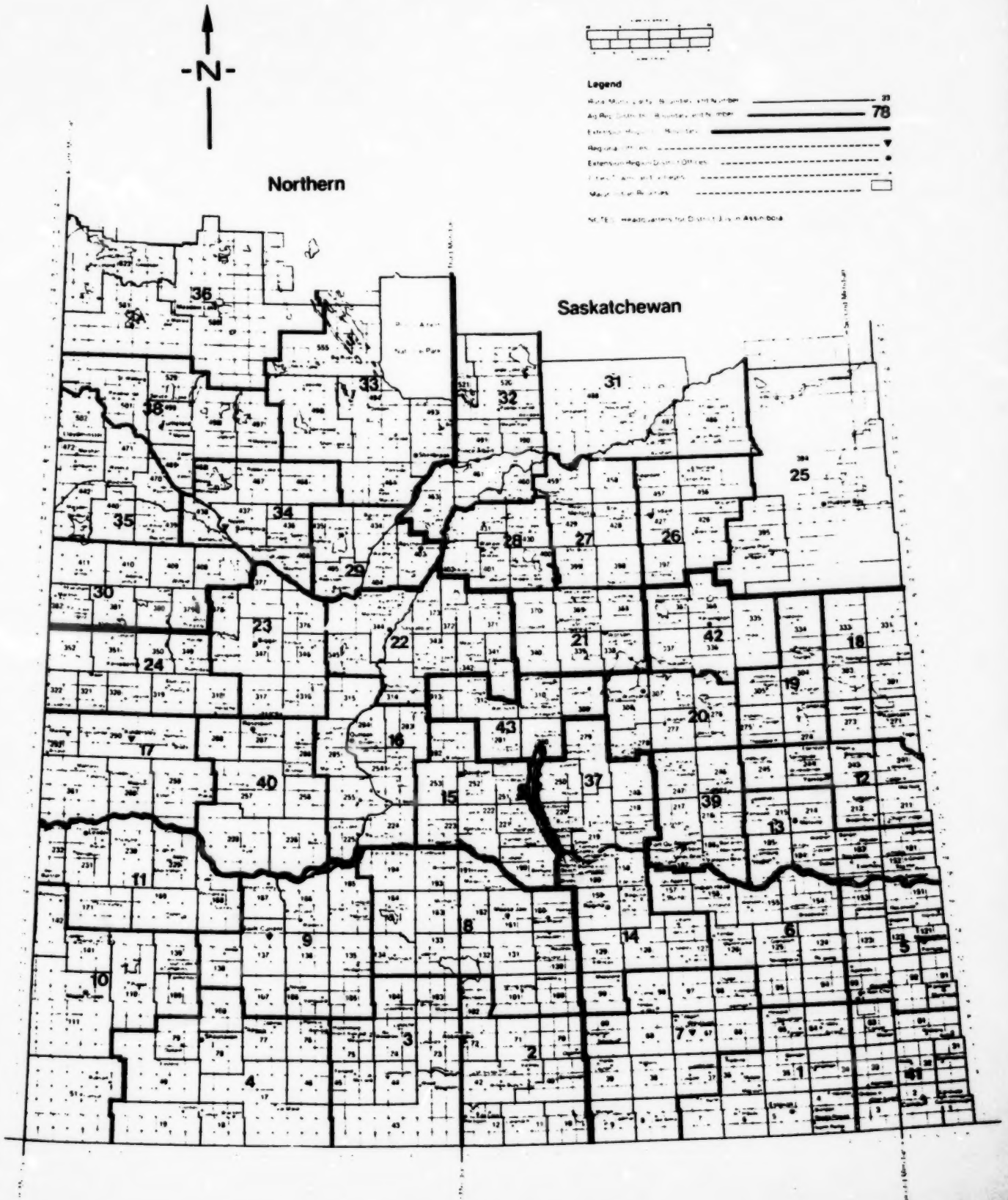
OTHER TESTS

REMARKS

THIS CERTIFIES THAT THE SAMPLE SUBMITTED FROM THE LOT DESIGNATED ABOVE HAS BEEN ANALYSED ACCORDING TO: 1. *Methods and Procedures of seed testing, C.D.A.* 2. *Rules for testing seeds, A.O.S.A.* 3. *International Rules for Seed Testing, I.S.T.A.* 4. *As specified by Contract.*
THE RESPONSIBILITY FOR ANY SEED SOLD UNDER THIS CERTIFICATE WITH RESPECT TO GRADE OR ANY OTHER SPECIFICATION RESTS ENTIRELY WITH THE SELLER.

Saskatchewan
Agriculture

Agricultural Extension Districts



Saskatchewan Agriculture Seed Drill Survey 1986

Sample No. _____

Name _____ Telephone No. _____

Address _____ Postal Code _____

R.M. No. _____ Kind of Grain _____ Variety _____

1. Source of Seed
   - Own Seed _____
   - Other Farmer's _____
   - Seed Grower _____
   - Seed Company _____

2. Class of Seed
   - Non-Pedigreed _____
   - Pedigreed — Cert. or Lot No.
     - Foundation _____
     - Registered _____
     - Certified _____

3. Where Cleaned — Authorized (Name)
   - Self-Cleaned _____ _____
   - Elevator _____
   - Mobile Plant _____
   - Farm Plant _____ _____
   - Commercial Plant _____ _____
   - Co-Op _____ _____
   - Not Cleaned _____

4. Seed Treatment (Product Name)
   - Fungicide _____
   - Insecticide _____
   - Dual _____
   - Not Treated _____

5. How do you rate your present seed cleaning method?
   - Good _____
   - Fair _____
   - Poor _____

6. Do you want a copy of the seed analysis for your farm?
   - Yes _____
   - No _____

7. Where Sampled
   - Drill Box _____
   - Truck _____
   - Bin _____

8. This sample represents _____ total bushels of seed.

9. What are your most troublesome weeds?
   1. _____ 2. _____ 3. _____

10. Comments regarding seed and seed cleaning

_____

_____

SCHEDULE I

(ss. 2, 4, 5, 6, 8, 9, 10, 19, 20, 21, 23, 24, 25, 25.1, 31, 33, 34 and Sch. III)

TABLES OF GRADE STANDARDS

TABLE I

Applicable to:

(*a*) Wheat, common — *Triticum aestivum* L., and
(*b*) Wheat, durum — *Triticum durum* Desf.

I	II	III	IV	V	VI	VII	VIII
	Maximum number of seeds per 500 grams except where otherwise stated						
	Noxious weed seeds		Additional seeds				
Grade Name	Primary	Primary plus secondary	Total weed seeds	Total other crops	of common wheat (*Triticum aestivum*) in durum wheat (*Triticum durum*)	Maximum number of ergot (*Claviceps purpurea*) per kilogram	Minimum percentage germination
1. Canada Foundation No. 1	0	0	3	0.25	0	1	85
2. Canada Foundation No. 2	0	1 per 10 kg	10	1.0	0	8	75
3. Canada Registered No. 1	0	0	3	0.25	0	1	85
4. Canada Registered No. 2	0	1 per 10 kg	10	1.0	0	8	75
5. Canada Certified No. 1	0	0	5	1.0	5	1	85
6. Canada Certified No. 2	0	2 per 5 kg	10	3.0	10	8	75
7. Canada No. 1 seed	0	1	15	10.0	15	1	85
8. Canada No. 2 seed	2	8	50	50.0	25	8	70

TABLE II

Applicable to

(*a*) Barley — *Hordeum vulgare* L., *H. distichon* L.
(*b*) Buckwheat, common — *Fagopyrum esculentum* Moench.
(*c*) Buckwheat, Tartarian — *Fagopyrum tataricum* (L.) Gaertn.
(*d*) Emmer — *Triticum dicoccum* Schrank
(*e*) Lentil — *Lens culinaris* Medic
(*f*) Lupine (field) — *Lupinus* spp. (Other than ornamental)
(*g*) Oat — *Avena sativa* L., *A. nuda* L.
(*h*) Rye — *Secale cereale* L.
(*i*) Sainfoin — *Onobrychis viciaefolia* Scop.
(*j*) Spelt — *Triticum spelta* L.
(*k*) Triticale — *Triticosecale* spp. (various amphiploids)
(*l*) Vetch, hairy — *Vicia villosa* Roth
(*m*) Vetch, Hungarian — *Vicia pannonica* Crantz., and
(*n*) Vetch, spring or common — *Vicia sativa* L.

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII
	Maximum number of seeds per 500 grams except where otherwise stated							Maximum number of ergot (*Claviceps purpurea*) per kilogram		Maximum per cent True loose smut (*Ustilago nuda*) in Barley	Minimum per cent germination	
	Noxious weed seeds											
		Primary plus secondary		Additional wild oats in oats	Total weed seeds	False wild oats in oats	Total other crops					
Grade Name	Primary	Oats	Other Kinds					In barley and oats	In rye		Rye and Triticale	Other Kinds
1. Canada Foundation No. 1	0	0	0	0	3	10	0.5	1	2	4	75	85
2. Canada Foundation No. 2	0	1 per 10 kg	1 per 10 kg	0	10	10	2.0	8	20	4	65	75
3. Canada Registered No. 1	0	0	0	0	3	10	0.5	1	2	4	75	85
4. Canada Registered No. 2	0	1 per 10 kg	1 per 10 kg	0	10	10	2.0	8	20	4	65	75
5. Canada Certified No. 1	0	2 per 5 kg	2 per 5 kg	0	5	10	3.0	2	6	8	75	85
6. Canada Certified No. 2	0	6 per 5 kg	3 per 5 kg	0	10	10	10.0	6	30	8	65	75
7. Canada No. 1 seed	0	1	1	1	15	10	100.0	2	—	—	75	85
8. Canada No. 2 seed	2	3	3	6	50	10	150.0	6	—	—	65	75

TABLE IV

Applicable to:

(*a*)	Canarygrass	— *Phalaris canariensis* L.
(*b*)	Flax, oil and fibre	— *Linum usitatissimum* L.
(*c*)	Sorghum	— *Sorghum bicolor* (L.) Moench (=*S. vulgare* Pers.) and *S. almum* Parodi
(*d*)	Sudan grass	— *Sorghum sudanense* (Piper) Stapf, and
(*e*)	Sorghum Sudan grass hybrids	

I	II	III	IV	V	VI	VII	VIII
	Maximum number of seeds per 25 grams					Minimum percentage germination	
	Noxious weed seeds			Seeds of other crops			
Grade Name	Primary	Primary plus secondary	Total weed seeds	In sorghum, Sudan grass and canary-grass	In other kinds	Flax	Other kinds
1. Canada Foundation No. 1	0	0.0	3	0.5	0.5	85	85
2. Canada Foundation No. 2	0	0.5	5	1.0	1.0	75	70
3. Canada Registered No. 1	0	0.0	3	0.5	0.5	85	85
4. Canada Registered No. 2	0	0.5	5	1.0	1.0	75	70
5. Canada Certified No. 1	0	0.5	5	1.0	1.0	85	85
6. Canada Certified No. 2	0	2.0	10	2.0	2.0	75	70
7. Canada No. 1 seed	0	2.0	10	25.0	2.0	85	85
8. Canada No. 2 seed	1	10.0	50	50.0	8.0	70	70

TABLE VI

Applicable to:

(*a*)	Oilseed rape	— *Brassica napus* L., *B. campestris* L.
(*b*)	Mustard, white	— *Sinapis alba* L. (=*B. hirta* Moench)
(*c*)	Mustard, black	— *Brassica nigra* (L.) Koch, and
(*d*)	Mustard, oriental, Indian	— *Brassica juncea* (L.) Czern.

I	II	III	IV	V	VI
	Maximum number of seeds per 25 grams except where otherwise stated				
	Noxious weed seeds				
Grade Name	Primary	Primary plus secondary	Total weed seeds	Seeds of other crops	Minimum percentage germination
1. Canada Foundation No. 1	0	0	5	0.5	90
2. Canada Foundation No. 2	0	0	10	1.0	75
3. Canada Registered No. 1	0	0	5	0.5	90
4. Canada Registered No. 2	0	0	10	1.0	75
5. Canada Certified No. 1	0	1	10	1.0	90
6. Canada Certified No. 2	0	2	20	2.0	80
7. Canada No. 1 seed	0	2	20	2.0	90
8. Canada No. 2 seed	2	5	30	8.0	70

CLEAN SEED SURVEY (1986)
PROVINCIAL SUMMARY
PRSUM86P

NUMBER OF SAMPLES BY GRAIN

GRAIN	BARLEY	CANOLA	DURUM	FLAX	OATS	WHEAT	TOTAL
	63	25	58	8	12	407	573

ANALYSIS BY SOURCE

SOURCE	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
SEED GROWER	59	10%	52	88%	7	12%	0	0%	22111	7%
OTHER FARMER	78	14%	36	46%	15	19%	25	32%	31066	9%
OWN SEED	415	72%	241	58%	99	24%	75	18%	277230	82%
SEED COMPANY	21	4%	20	95%	0	0%	1	5%	7892	2%
TOTAL	573	100%	351	61%	121	21%	101	18%	337999	100%

ANALYSIS BY CLASS

CLASS	SAMPLES		CAN.NO.1		CAN.NO.2		REJECT		BUSHELS	
CERTIFIED	66	12%	61	92%	5	8%	0	0%	22358	7%
FOUNDATION	3	1%	3	100%	0	0%	0	0%	825	0%
REGISTERED	8	1%	7	88%	1	13%	0	0%	2290	1%
NON-PEDIGREED	496	86%	280	57%	115	23%	101	20%	312526	92%
TOTAL	573	100%	351	61%	121	21%	101	18%	337999	100%

ANALYSIS BY WHERE CLEANED

WHERE CLEANED	SAMPLES		CAN.NO.1		CAN.NO.2		REJECT		BUSHELS	
ELEVATOR	252	44%	109	43%	73	29%	70	28%	127176	38%
MOBILE PLANT	69	12%	53	77%	10	14%	6	9%	69676	21%
NOT CLEANED	9	2%	0	0%	0	0%	9	100%	975	0%
SELF CLEANED	42	7%	23	55%	16	38%	3	7%	23869	7%
FARM PLANT	71	12%	54	76%	11	15%	6	8%	42134	12%
COMMERCIAL PLANT	124	22%	107	86%	11	9%	6	5%	65219	19%
COOPERATIVE	6	1%	5	83%	0	0%	1	17%	8950	3%
TOTAL	573	100%	351	61%	121	21%	101	18%	337999	100%

ANALYSIS BY TYPE OF PLANT

TYPE OF PLANT	SAMPLES		CAN.NO.1		CAN.NO.2		REJECT		BUSHELS	
AUTHORIZED	152	27%	130	86%	16	11%	6	4%	66820	26%
UNATHORIZED	421	73%	221	52%	105	25%	95	23%	251179	74%
TOTAL	573	100%	351	61%	121	21%	101	18%	337999	100%

ANALYSIS BY WHERE SAMPLED

WHERE SAMPLED	SAMPLES		CAN.NO.1		CAN.NO.2		REJECT		BUSHELS	
BIN	191	32%	107	59%	38	21%	36	20%	116745	35%
DRILL	277	49%	179	65%	58	21%	40	14%	164798	49%
TRUCK	109	19%	60	55%	25	23%	24	22%	54205	16%
TOTAL	567	100%	346	61%	121	21%	100	18%	335748	100%

SEED TREATMENT

TREATMENT	DUAL PURPOSE		FUNGICIDE		INSECTICIDE		NOT TREATED	
	49	9%	36	6%	3	1%	485	84%

CLEANING FACILITY RATING BY FARMERS

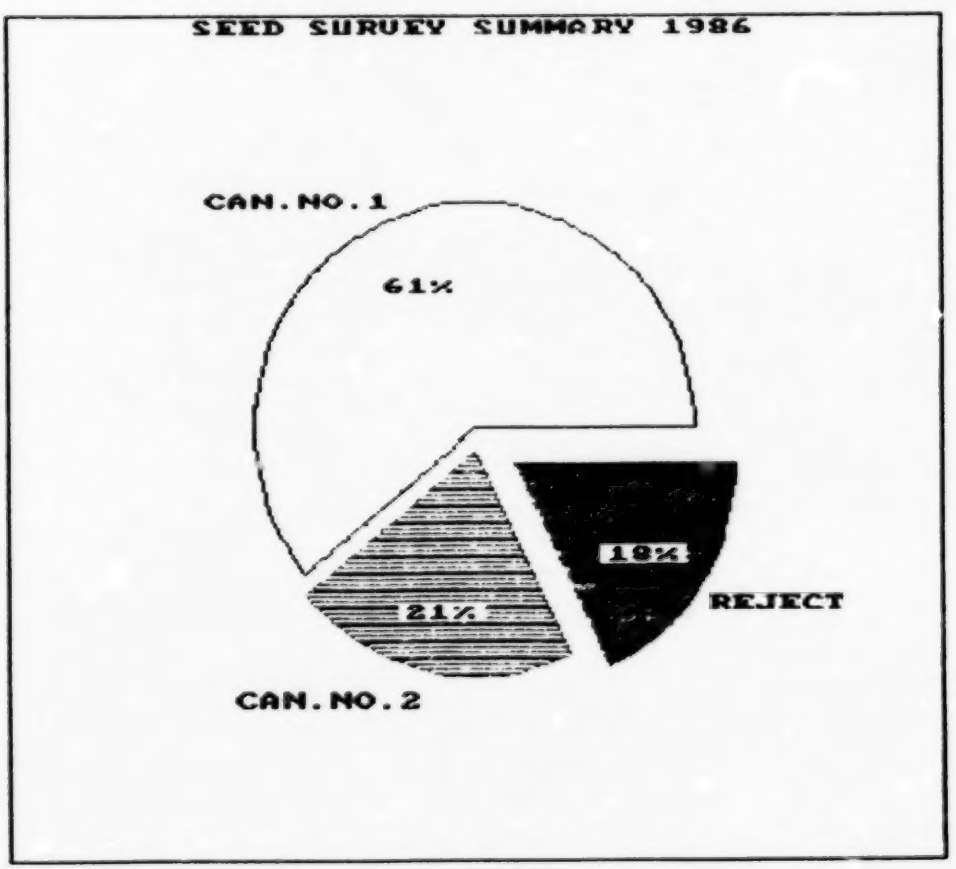
RATING	GOOD		FAIR		POOR	
	434	77%	97	16%	14	3%

ANALYSIS BY AG. REP. DISTRICT

DISTRICT	NO. OF SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS TO BE SEEDED	%
7 MEYBURN	124	22%	72	58%	32	26%	20	16%	90766	27%
9 SWIFT CURRENT	114	20%	63	55%	30	26%	21	18%	61070	18%
12 YORKTON	82	14%	48	59%	15	19%	19	23%	37727	11%
22 SASKATOON	106	18%	67	63%	19	18%	20	19%	59696	17%
27 MELFORT	90	16%	57	71%	10	13%	13	16%	41954	12%
34 NORTH BATTLEFORD	67	12%	44	66%	15	22%	8	12%	49786	15%
TOTAL	573	100%	351	61%	121	21%	101	18%	337999	100%

WEED PROBLEM RATING

NAME	RATING	NAME	RATING
WILD OATS	992	CHICKWEED	14
GREEN FOXTAIL	749	CLEAVERS	14
CANADA THISTLE	191	HEMP-NETTLE	11
FLIXWEED	1o3	SOW-THISTLE	9
WILD BUCKWHEAT	155	FIELD BINDWEED	8
COW COCKLE	111	DANDELION	6
STINKWEED	101	HAWK'S-BEARD	5
WILD MUSTARD	90	SHEPHERD'S-PURSE	5
QUACK GRASS	43	LADY'S THUMB	4
KOCHIA	31	SCENTLESS CHAMOMILE	3
PERSIAN DARNEL	17	HORSETAIL	2
PIGWEED	16	DOWNY BROME	1
RUSSIAN THISTLE	15	ROUND-LEAVED MALLOW	1



CLEAN SEED SURVEY (1986)
AGRICULTURAL REPRESENTATIVE DISTRICT
WEYBURN DIST.7F

NUMBER OF SAMPLES BY GRAIN

GRAIN	BARLEY	CANOLA	DURUM	FLAX	OATS	WHEAT	TOTAL
	5	1	29	0	2	87	124

ANALYSIS BY SOURCE

SOURCE	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
SEED GROWER	11	9%	11	100%	0	0%	0	0%	3024	3%
OTHER FARMER	15	12%	5	33%	4	27%	6	40%	6531	7%
OWN SEED	97	77%	55	57%	28	29%	14	14%	81086	89%
SEED COMPANY	1	1%	1	100%	0	0%	0	0%	125	0%
TOTAL	124	98%	72	58%	32	26%	20	16%	90766	100%

ANALYSIS BY CLASS

CLASS	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
CERTIFIED	9	7%	9	100%	0	0%	0	0%	2676	3%
FOUNDATION	0	0%	0	0%	0	0%	0	0%	0	0%
REGISTERED	1	1%	1	100%	0	0%	0	0%	850	1%
NON-PEDIGREED	114	90%	62	54%	32	28%	20	18%	87240	96%
TOTAL	124	98%	72	58%	32	26%	20	16%	90766	100%

ANALYSIS BY WHERE CLEANED

WHERE CLEANED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
ELEVATOR	61	49%	26	43%	19	31%	16	26%	35771	39%
MOBILE PLANT	10	8%	7	70%	3	30%	0	0%	10746	12%
NOT CLEANED	0	0%	0	0%	0	0%	0	0%	0	0%
SELF CLEANED	11	9%	6	55%	5	45%	0	0%	9950	11%
FARM PLANT	13	10%	10	77%	2	15%	1	8%	9683	11%
COMMERCIAL PLANT	28	23%	23	82%	3	11%	2	7%	22616	25%
COOPERATIVE	1	1%	0	0%	0	0%	1	100%	2000	2%
TOTAL	124	100%	72	58%	32	26%	20	16%	90766	100%

ANALYSIS BY TYPE OF PLANT

TYPE OF PLANT	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
AUTHORIZED	30	24%	26	87%	2	7%	2	7%	24684	27%
UNATHORIZED	94	76%	46	49%	30	32%	18	19%	66082	73%
TOTAL	124	100%	72	58%	32	26%	20	16%	90766	100%

ANALYSIS BY WHERE SAMPLED

WHERE SAMPLED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
BIN	49	40%	27	55%	14	29%	8	16%	39146	43%
DRILL	44	35%	28	64%	11	25%	5	11%	32479	36%
TRUCK	31	25%	17	55%	7	23%	7	23%	19141	21%
TOTAL	124	100%	72	58%	32	26%	20	16%	90766	100%

SEED TREATMENT

TREATMENT	DUAL PURPOSE	%	FUNGICIDE	%	INSECTICIDE	%	NOT TREATED	%
	5	4%	4	3%	1	1%	114	92%

CLEANING FACILITY RATING BY FARMERS

RATING	GOOD	%	FAIR	%	POOR	%
	98	79%	24	19%	2	2%

WEED PROBLEM RATING

NAME	RATING
GREEN FOXTAIL	213
WILD OATS	147
FLIXWEED	53
WILD BUCKWHEAT	35
COW COCKLE	29
WILD MUSTARD	27
CANADA THISTLE	24
KOCHIA	21
STINKWEED	11
PIGWEED	7
RUSSIAN THISTLE	7
HAWK'S-BEARD	3
FIELD BINDWEED	2
SOW-THISTLE	2
QUACK GRASS	1

CLEAN SEED SURVEY (1986)
AGRICULTURAL REPRESENTATIVE DISTRICT
SWIFT CURRENT DIST.#P

NUMBER OF SAMPLES BY GRAIN

GRAIN	BARLEY	CANOLA	DURUM	FLAX	OATS	WHEAT	TOTAL
	5	0	22	0	1	86	114

ANALYSIS BY SOURCE

SOURCE	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
SEED GROWER	2	2%	1	50%	1	50%	0	0%	1100	2%
OTHER FARMER	8	7%	5	63%	1	13%	2	25%	4320	7%
OWN SEED	102	89%	55	54%	28	27%	19	19%	55495	91%
SEED COMPANY	2	2%	2	100%	0	0%	0	0%	155	0%
TOTAL	114	100%	63	55%	30	26%	21	18%	61070	100%

ANALYSIS BY CLASS

CLASS	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
CERTIFIED	3	3%	3	100%	0	0%	0	0%	755	1%
FOUNDATION	0	0%	0	0%	0	0%	0	0%	0	0%
REGISTERED	0	0%	0	0%	0	0%	0	0%	0	0%
NON-PEDIGREED	111	97%	60	54%	30	27%	21	19%	60315	99%
TOTAL	114	100%	63	55%	30	26%	21	18%	61070	100%

ANALYSIS BY WHERE CLEANED

WHERE CLEANED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
ELEVATOR	78	68%	44	56%	19	24%	15	19%	37630	62%
MOBILE PLANT	12	11%	4	33%	4	33%	4	33%	10780	18%
NOT CLEANED	1	1%	0	0%	0	0%	1	100%	235	0%
SELF CLEANED	7	6%	3	43%	4	57%	0	0%	3850	6%
FARM PLANT	8	7%	7	88%	0	0%	1	13%	5500	9%
COMMERCIAL PLANT	6	7%	5	63%	3	38%	0	0%	3075	5%
COOPERATIVE	0	0%	0	0%	0	0%	0	0%	0	0%
TOTAL	114	100%	63	55%	30	26%	21	18%	61070	100%

ANALYSIS BY TYPE OF PLANT

TYPE OF PLANT	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
AUTHORIZED	14	12%	12	86%	2	14%	0	0%	7125	12%
UNATHORIZED	100	88%	51	51%	28	28%	21	21%	53945	88%
TOTAL	114	100%	63	55%	30	26%	21	18%	61070	100%

ANALYSIS BY WHERE SAMPLED

WHERE SAMPLED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
BIN	28	25%	11	39%	11	39%	6	21%	19310	32%
DRILL	68	60%	45	66%	14	21%	9	13%	34055	56%
TRUCK	18	16%	7	39%	5	28%	6	33%	7705	13%
TOTAL	114	100%	63	55%	30	26%	21	18%	61070	100%

SEED TREATMENT

TREATMENT	DUAL PURPOSE	%	FUNGICIDE	%	INSECTICIDE	%	NOT TREATED	%
	13	11%	3	3%	0	0%	98	86%

CLEANING FACILITY RATING BY FARMERS

RATING	GOOD	%	FAIR	%	POOR	%
	85	75%	27	24%	2	2%

WEED PROBLEM RATING

NAME	RATING
WILD OATS	153
GREEN FOXTAIL	116
FLIXWEED	100
COW COCKLE	69
WILD BUCKWHEAT	49
STINKWEED	21
PERSIAN DARNEL	16
CANADA THISTLE	12
KOCHIA	7
FIELD BINDWEED	6
RUSSIAN THISTLE	5
WILD MUSTARD	4
DOWNY BROME	1
PIGWEED	1

CLEAN SEED SURVEY (1986)
AGRICULTURAL REPRESENTATIVE DISTRICT
YORKTON DIST.12P

NUMBER OF SAMPLES BY GRAIN

GRAIN	BARLEY	CANOLA	DURUM	FLAX	OATS	WHEAT	TOTAL
	8	6	1	2	3	62	82

ANALYSIS BY SOURCE

SOURCE	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
SEED GROWER	13	16%	9	69%	4	31%	0	0%	3408	9%
OTHER FARMER	15	18%	6	40%	5	33%	4	27%	5040	13%
OWN SEED	46	56%	26	57%	6	13%	14	30%	28625	76%
SEED COMPANY	8	10%	7	88%	0	0%	1	13%	654	2%
TOTAL	82	99%	48	59%	15	18%	19	23%	37727	100%

ANALYSIS BY CLASS

CLASS	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
CERTIFIED	12	15%	11	92%	1	8%	0	0%	1125	3%
FOUNDATION	0	0%	0	0%	0	0%	0	0%	0	0%
REGISTERED	3	4%	2	67%	1	33%	0	0%	450	1%
NON-PEDIGREED	67	82%	35	52%	13	19%	19	28%	36152	96%
TOTAL	82	100%	48	59%	15	18%	19	23%	37727	100%

ANALYSIS BY WHERE CLEANED

WHERE CLEANED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
ELEVATOR	23	28%	6	26%	7	30%	10	43%	8865	23%
MOBILE PLANT	17	20%	15	88%	1	6%	1	6%	17900	47%
NOT CLEANED	4	5%	0	0%	0	0%	4	100%	250	1%
SELF CLEANED	4	5%	3	75%	1	25%	0	0%	1000	3%
FARM PLANT	21	25%	14	67%	5	24%	2	10%	9036	24%
COMMERCIAL PLANT	13	16%	10	77%	1	8%	2	15%	674	2%
COOPERATIVE	0	0%	0	0%	0	0%	0	0%	0	0%
TOTAL	82	99%	48	59%	15	18%	19	23%	37727	100%

ANALYSIS BY TYPE OF PLANT

TYPE OF PLANT	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
AUTHORIZED	29	35%	22	76%	5	17%	2	7%	8162	22%
UNATHORIZED	53	65%	26	49%	10	19%	17	32%	29565	78%
TOTAL	82	100%	48	59%	15	18%	19	23%	37727	100%

ANALYSIS BY WHERE SAMPLED

WHERE SAMPLED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
BIN	46	58%	25	54%	6	13%	15	33%	19406	54%
DRILL	27	34%	18	67%	7	26%	2	7%	15021	42%
TRUCK	6	8%	2	33%	2	33%	2	33%	1300	4%
TOTAL	79	100%	45	57%	15	19%	19	24%	35727	100%

SEED TREATMENT

TREATMENT	DUAL PURPOSE	%	FUNGICIDE	%	INSECTICIDE	%	NOT TREATED	%
	1	1%	5	6%	0	0%	76	93%

CLEANING FACILITY RATING BY FARMERS

RATING	GOOD	%	FAIR	%	POOR	%
	60	78%	13	17%	4	5%

WEED PROBLEM RATING

NAME	RATING
WILD OATS	185
GREEN FOXTAIL	141
WILD BUCKWHEAT	30
QUACK GRASS	14
WILD MUSTARD	12
CANADA THISTLE	10
SOW-THISTLE	4
COW COCKLE	2
PIGWEED	2
STINKWEED	2
HAWK'S-BEARD	1
ROUND-LEAVED MALLOW	1
SHEPHERD'S-PURSE	1

CLEAN SEED SURVEY (1986)
AGRICULTURAL REPRESENTATIVE DISTRICT
SASKATOON DIST.22P

NUMBER OF SAMPLES BY GRAIN

GRAIN	BARLEY	CANOLA	DURUM	FLAX	OATS	WHEAT	TOTAL
	13	2	4	1	4	82	106

ANALYSIS BY SOURCE

SOURCE	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
SEED GROWER	9	8%	8	89%	1	11%	0	0%	2338	4%
OTHER FARMER	22	21%	12	55%	3	14%	7	32%	9690	17%
OWN SEED	74	70%	46	62%	15	20%	13	18%	44468	78%
COMMERCIAL	1	1%	1	100%	0	0%	0	0%	200	0%
TOTAL	106	100%	67	63%	19	18%	20	19%	56696	100%

ANALYSIS BY CLASS

CLASS	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
CERTIFIED	11	10%	10	91%	1	9%	0	0%	2583	5%
FOUNDATION	1	1%	1	100%	0	0%	0	0%	55	0%
REGISTERED	0	0%	0	0%	0	0%	0	0%	0	0%
NON-PEDIGREED	94	89%	56	60%	18	19%	20	21%	54058	95%
TOTAL	106	100%	67	63%	19	18%	20	19%	56696	100%

ANALYSIS BY WHERE CLEANED

WHERE CLEANED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
ELEVATOR	43	41%	16	37%	14	33%	13	30%	20248	36%
MOBILE PLANT	19	18%	17	89%	1	5%	1	5%	15000	26%
NOT CLEANED	2	2%	0	0%	0	0%	2	100%	200	0%
SELF CLEANED	11	10%	6	55%	3	27%	2	18%	5250	9%
FARM PLANT	15	14%	13	87%	1	7%	1	7%	7536	13%
COMMERCIAL PLANT	16	15%	15	94%	0	0%	1	6%	8362	15%
COOPERATIVE	0	0%	0	0%	0	0%	0	0%	0	0%
TOTAL	106	100%	67	63%	19	18%	20	19%	56696	100%

ANALYSIS BY TYPE OF PLANT

TYPE OF PLANT	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
AUTHORIZED	19	18%	17	89%	1	5%	1	5%	8193	14%
UNATHORIZED	87	82%	50	57%	18	21%	19	22%	48503	86%
TOTAL	106	100%	67	63%	19	18%	20	19%	56696	100%

ANALYSIS BY WHERE SAMPLED

WHERE SAMPLED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
BIN	24	23%	19	79%	4	17%	1	4%	11560	20%
DRILL	64	62%	39	61%	11	17%	14	22%	36555	65%
TRUCK	16	15%	7	44%	4	25%	5	31%	8490	15%
TOTAL	104	100%	65	63%	19	18%	20	19%	56605	100%

SEED TREATMENT

TREATMENT	DUAL PURPOSE	%	FUNGICIDE	%	INSECTICIDE	%	NOT TREATED	%
	15	14%	7	7%	0	0%	84	79%

CLEANING FACILITY RATING BY FARMERS

RATING	GOOD	%	FAIR	%	POOR	%
	76	81%	15	16%	3	3%

WEED PROBLEM RATING

NAME	RATING
WILD OATS	187
GREEN FOXTAIL	183
CANADA THISTLE	43
COW COCKLE	11
STINKWEED	8
WILD MUSTARD	6
FLIXWEED	4
WILD BUCKWHEAT	4
KOCHIA	3
QUACK GRASS	3
RUSSIAN THISTLE	2
PERSIAN DARNEL	1

CLEAN SEED SURVEY (1986)
AGRICULTURAL REPRESENTATIVE DISTRICT
MELFORT DIST.27P

NUMBER OF SAMPLES BY GRAIN

GRAIN	BARLEY	CANOLA	DURUM	FLAX	OATS	WHEAT	TOTAL
	27	10	1	5	2	35	80

ANALYSIS BY SOURCE

SOURCE	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
SEED GROWER	18	23%	17	94%	1	6%	0	0%	10769	26%
OTHER FARMER	17	21%	10	59%	2	12%	5	29%	5505	13%
OWN SEED	41	51%	26	63%	7	17%	8	20%	20460	49%
SEED COMPANY	4	5%	4	100%	0	0%	0	0%	5220	12%
TOTAL	80	100%	57	71%	10	13%	13	16%	41954	100%

ANALYSIS BY CLASS

CLASS	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
CERTIFIED	21	26%	18	86%	3	14%	0	0%	12899	31%
FOUNDATION	2	3%	2	100%	0	0%	0	0%	770	2%
REGISTERED	3	4%	3	100%	0	0%	0	0%	800	2%
NON-PEDIGREED	54	68%	34	63%	7	13%	13	24%	27485	66%
TOTAL	80	100%	57	71%	10	13%	13	16%	41954	100%

ANALYSIS BY WHERE CLEANED

WHERE CLEANED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
ELEVATOR	18	23%	7	39%	2	11%	9	50%	7140	17%
MOBILE PLANT	1	1%	0	0%	1	100%	0	0%	600	1%
NOT CLEANED	2	3%	0	0%	0	0%	2	100%	290	1%
SELF CLEANED	4	5%	2	50%	2	50%	0	0%	1050	3%
FARM PLANT	11	14%	8	73%	2	18%	1	9%	8665	21%
COMMERCIAL PLANT	44	55%	40	91%	3	7%	1	2%	24209	58%
COOPERATIVE	0	0%	0	0%	0	0%	0	0%	0	0%
TOTAL	80	100%	57	71%	10	13%	13	16%	41954	100%

ANALYSIS BY TYPE OF PLANT

TYPE OF PLANT	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
AUTHORIZED	38	48%	32	84%	5	13%	1	3%	24236	58%
UNAUTHORIZED	42	53%	25	60%	5	12%	12	29%	17718	42%
TOTAL	80	100%	57	71%	10	13%	13	16%	41954	100%

ANALYSIS BY WHERE SAMPLED

WHERE SAMPLED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
BIN	24	30%	17	71%	2	8%	5	21%	14255	34%
DRILL	39	49%	25	64%	7	18%	7	18%	23395	56%
TRUCK	17	21%	15	88%	1	6%	1	6%	4304	10%
TOTAL	80	100%	57	71%	10	13%	13	16%	41954	100%

SEED TREATMENT

TREATMENT	DUAL PURPOSE	%	FUNGICIDE	%	INSECTICIDE	%	NOT TREATED	%
	7	9%	11	14%	2	3%	60	75%

CLEANING FACILITY RATING BY FARMERS

RATING	GOOD	%	FAIR	%	POOR	%
	68	85%	11	14%	1	1%

WEED PROBLEM RATING

NAME	RATING
WILD OATS	182
CANADA THISTLE	61
WILD MUSTARD	41
GREEN FOXTAIL	37
WILD BUCKWHEAT	22
STINKWEED	19
CHICKWEED	14
CLEAVERS	14
HEMP-NETTLE	11
QUACK GRASS	8
DANDELION	6
LADY'S THUMB	4
SHEPHERD'S-PURSE	4
FLIXWEED	3
SOW-THISTLE	3
HORSETAIL	2

CLEAN SEED SURVEY (1986)
AGRICULTURAL REPRESENTATIVE DISTRICT
NORTH BATTLEFORD DIST.34P

NUMBER OF SAMPLES BY GRAIN

GRAIN	BARLEY	CANOLA	DURUM	FLAX	OATS	WHEAT	TOTAL
	5	6	1	0	0	55	67

ANALYSIS BY SOURCE

SOURCE	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
SEED GROWER	6	9%	6	100%	0	0%	0	0%	1472	3%
OTHER FARMER	1	1%	0	0%	0	0%	1	100%	180	0%
OWN SEED	55	82%	33	60%	15	27%	7	13%	47096	95%
SEED COMPANY	5	7%	5	100%	0	0%	0	0%	1038	2%
TOTAL	67	100%	44	66%	15	22%	8	12%	49786	100%

ANALYSIS BY CLASS

CLASS	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
CERTIFIED	10	15%	10	100%	0	0%	0	0%	2320	5%
FOUNDATION	0	0%	0	0%	0	0%	0	0%	0	0%
REGISTERED	1	1%	1	100%	0	0%	0	0%	190	0%
NON-PEDIGREED	56	84%	33	59%	15	27%	8	14%	47276	95%
TOTAL	67	100%	44	66%	15	22%	8	12%	49786	100%

ANALYSIS BY WHERE CLEANED

WHERE CLEANED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
ELEVATOR	29	43%	10	34%	12	41%	7	24%	17522	35%
MOBILE PLANT	10	15%	10	100%	0	0%	0	0%	14650	29%
NOT CLEANED	0	0%	0	0%	0	0%	0	0%	0	0%
SELF CLEANED	5	7%	3	60%	1	20%	1	20%	2769	6%
FARM PLANT	3	4%	2	67%	1	33%	0	0%	1612	3%
COMMERCIAL PLANT	15	22%	14	93%	1	7%	0	0%	6283	13%
COOPERATIVE	5	7%	5	100%	0	0%	0	0%	6950	14%
TOTAL	67	100%	44	66%	15	22%	8	12%	49786	100%

ANALYSIS BY TYPE OF PLANT

TYPE OF PLANT	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
AUTHORIZED	22	33%	21	95%	1	5%	0	0%	14420	29%
UNAUTHORIZED	45	67%	23	51%	14	31%	8	18%	35366	71%
TOTAL	67	100%	44	66%	15	22%	8	12%	49786	100%

ANALYSIS BY WHERE SAMPLED

WHERE SAMPLED	SAMPLES	%	CAN.NO.1	%	CAN.NO.2	%	REJECT	%	BUSHELS	%
BIN	10	15%	8	80%	1	10%	1	10%	13068	26%
DRILL	35	53%	24	69%	8	23%	3	9%	23293	47%
TRUCK	21	32%	12	57%	6	29%	3	14%	13265	27%
TOTAL	66	100%	44	67%	15	23%	7	11%	49626	100%

SEED TREATMENT

TREATMENT	DUAL PURPOSE	%	FUNGICIDE	%	INSECTICIDE	%	NOT TREATED	%
	8	12%	6	9%	0	0%	53	79%

CLEANING FACILITY RATING BY FARMERS

RATING	GOOD	%	FAIR	%	POOR	%
	45	83%	7	13%	2	4%

WEED PROBLEM RATING

NAME	RATING
WILD OATS	138
GREEN FOXTAIL	59
CANADA THISTLE	41
STINKWEED	41
QUACK GRASS	17
WILD BUCKWHEAT	15
PIGWEED	6
FLIXWEED	3
SCENTLESS CHAMOMILE	3
HAWK'S-BEARD	1
RUSSIAN THISTLE	1

POOR
QUALITY
ORIGINAL